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RAW SEQUENCE LISTING

DATE: 07/18/2001

PATENT APPLICATION: US/09/832,355A

TIME: 09:49:45

Input Set : A:\205654.txt

Output Set: N:\CRF3\07182001\I832355A.raw

ENTERED

3 <110> APPLICANT: Kovesdi, Imre
 4 Kessler, Paul
 6 <120> TITLE OF INVENTION: VEGF FUSION PROTEINS
 8 <130> FILE REFERENCE: 205654
 10 <140> CURRENT APPLICATION NUMBER: US 09/832,355A
 11 <141> CURRENT FILING DATE: 2001-04-10
 13 <160> NUMBER OF SEQ ID NOS: 126
 15 <170> SOFTWARE: PatentIn version 3.0
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 121
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
 24 Ala Pro Met Ala Glu Gly Gly Gly Gln Asn His His Glu Val Val Lys
 25 1 5 10 15
 27 Phe Met Asp Val Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu
 28 20 25 30
 30 Val Asp Ile Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys
 31 35 40 45
 33 Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
 34 50 55 60
 36 Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
 37 65 70 75 80
 39 Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe
 40 85 90 95
 42 Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg
 43 100 105 110
 45 Gln Glu Lys Cys Asp Lys Pro Arg Arg
 46 115 120
 48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 101
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 2
 55 Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln Arg Ser
 56 1 5 10 15
 58 Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu Tyr Pro
 59 20 25 30
 61 Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu Met Arg
 62 35 40 45
 64 Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro Thr Glu
 65 50 55 60
 67 Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His Gln Gly
 68 65 70 75 80
 70 Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys Glu Cys
 71 85 90 95
 73 Arg Pro Lys Lys Asp

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74          100
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78 <212> TYPE: PRT
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 3
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84 1          5          10          15
86 Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys
87          20          25          30
89 Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr Cys Arg
90          35          40
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 366
94 <212> TYPE: DNA
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 4
98 gcacccatgg cagaaggagg agggcagaat catcacgaag tggatgaagtt catggatgtc      60
100 tatcagcgca gctactgcc aaccaatcgag accctgggtg acatcttcca ggagtaccct      120
102 gatgagatcg agtacatctt caagccatcc tgtgtgcccc tgatgcgatg cggggggtgc      180
104 tgcaatgacg agggcctgga gtgtgtgccc actgaggagt ccaacatcac catgcagatt      240
106 atgcggatca aacctcacca aggccagcac ataggagaga tgagcttcct acagcacaac      300
108 aaatgtgaat gcagacaaa gaaagataga gcaagacaag aaaaatgtga caagccgagg      360
110 cggtga
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 14
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial sequence
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: ()..()
120 <223> OTHER INFORMATION: Synthetic
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (2)..(2)
125 <223> OTHER INFORMATION: "Xaa" may be any amino acid
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (5)..(7)
130 <223> OTHER INFORMATION: "Xaa" may be any amino acid
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (10)..(10)
135 <223> OTHER INFORMATION: "Xaa" may be any amino acid
137 <400> SEQUENCE: 5
139 Pro Xaa Cys Val Xaa Xaa Xaa Arg Cys Xaa Gly Cys Cys Asn
140 1          5          10
142 <210> SEQ ID NO: 6
143 <211> LENGTH: 25

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144 <212> TYPE: PRT
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 6
149 Lys Lys Ser Val Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys
150 1 5 10 15
152 Lys Ser Arg Tyr Lys Ser Trp Ser Val
153 20 25
155 <210> SEQ ID NO: 7
156 <211> LENGTH: 6
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 7
162 Ala Arg Gln Glu Lys Cys
163 1 5
165 <210> SEQ ID NO: 8
166 <211> LENGTH: 11
167 <212> TYPE: PRT
168 <213> ORGANISM: Homo sapiens
170 <400> SEQUENCE: 8
172 Ala Arg Gln Glu Lys Cys Asp Lys Pro Arg Arg
173 1 5 10
175 <210> SEQ ID NO: 9
176 <211> LENGTH: 8
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial sequence
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: ()..()
183 <223> OTHER INFORMATION: Synthetic
185 <400> SEQUENCE: 9
187 Tyr Val Gly Ala Arg Cys Cys Leu
188 1 5
190 <210> SEQ ID NO: 10
191 <211> LENGTH: 8
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial sequence
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: ()..()
198 <223> OTHER INFORMATION: Synthetic
200 <400> SEQUENCE: 10
202 Met Pro Trp Ser Leu Pro Gly Pro
203 1 5
205 <210> SEQ ID NO: 11
206 <211> LENGTH: 16
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 11
212 Tyr Val Gly Ala Arg Cys Cys Leu Met Pro Trp Ser Leu Pro Gly Pro

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213 1          5          10          15
215 <210> SEQ ID NO: 12
216 <211> LENGTH: 23
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 12
222 Lys Ser Val Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys Lys
223 1          5          10          15
225 Ser Arg Tyr Lys Ser Trp Ser
226          20
228 <210> SEQ ID NO: 13
229 <211> LENGTH: 11
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial sequence
233 <220> FEATURE:
234 <221> NAME/KEY: misc_feature
235 <222> LOCATION: ()..()
236 <223> OTHER INFORMATION: Synthetic
238 <220> FEATURE:
239 <221> NAME/KEY: misc_feature
240 <222> LOCATION: (2)..(4)
241 <223> OTHER INFORMATION: "Xaa" may be any amino acid
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (8)..(10)
246 <223> OTHER INFORMATION: "Xaa" may be any amino acid
248 <400> SEQUENCE: 13
W- 250 Cys Xaa Xaa Xaa Arg Asp Gly Xaa Xaa Xaa Cys
251 1          5          10
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 45
255 <212> TYPE: PRT
256 <213> ORGANISM: Artificial sequence
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: ()..()
261 <223> OTHER INFORMATION: Synthetic
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (2)..(13)
266 <223> OTHER INFORMATION: "Xaa" may any amino acid. Up to 6 of the 12 indicated
267 residues may be missing.
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (15)..(15)
272 <223> OTHER INFORMATION: "Xaa" may any amino acid
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (17)..(22)

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RAW SEQUENCE LISTING

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Input Set : A:\205654.txt

Output Set: N:\CRF3\07182001\I832355A.raw

277 <223> OTHER INFORMATION: "Xaa" may any amino acid. Up to 3 of the 6 indicated
 278 residues may be missing.
 280 <220> FEATURE:
 281 <221> NAME/KEY: misc_feature
 282 <222> LOCATION: (24)..(29)
 283 <223> OTHER INFORMATION: "Xaa" may any amino acid. Up to 3 of the 6 indicated
 284 residues may be missing.
 286 <220> FEATURE:
 287 <221> NAME/KEY: misc_feature
 288 <222> LOCATION: (31)..(44)
 289 <223> OTHER INFORMATION: "Xaa" may any amino acid. Up to 6 of the 14 indicated
 290 residues may be missing.
 292 <400> SEQUENCE: 14
 W--> 294 Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Cys
 295 1 5 10 15
 W--> 297 Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
 298 20 25 30
 W--> 300 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
 301 35 40 45
 303 <210> SEQ ID NO: 15
 304 <211> LENGTH: 498
 305 <212> TYPE: PRT
 306 <213> ORGANISM: Homo sapiens
 308 <400> SEQUENCE: 15
 310 Met Thr Val Phe Leu Ser Phe Ala Phe Leu Ala Ala Ile Leu Thr His
 311 1 5 10 15
 313 Ile Gly Cys Ser Asn Gln Arg Arg Ser Pro Glu Asn Ser Gly Arg Arg
 314 20 25 30
 316 Tyr Asn Arg Ile Gln His Gly Gln Cys Ala Tyr Thr Phe Ile Leu Pro
 317 35 40 45
 319 Glu His Asp Gly Asn Cys Arg Glu Ser Thr Thr Asp Gln Tyr Asn Thr
 320 50 55 60
 322 Asn Ala Leu Gln Arg Asp Ala Pro His Val Glu Pro Asp Phe Ser Ser
 323 65 70 75 80
 325 Gln Lys Leu Gln His Leu Glu His Val Met Glu Asn Tyr Thr Gln Trp
 326 85 90 95
 328 Leu Gln Lys Leu Glu Asn Tyr Ile Val Glu Asn Met Lys Ser Glu Met
 329 100 105 110
 331 Ala Gln Ile Gln Gln Asn Ala Val Gln Asn His Thr Ala Thr Met Leu
 332 115 120 125
 334 Glu Ile Gly Thr Ser Leu Leu Ser Gln Thr Ala Glu Gln Thr Arg Lys
 335 130 135 140
 337 Leu Thr Asp Val Glu Thr Gln Val Leu Asn Gln Thr Ser Arg Leu Glu
 338 145 150 155 160
 340 Ile Gln Leu Leu Glu Asn Ser Leu Ser Thr Tyr Lys Leu Glu Lys Gln
 341 165 170 175
 343 Leu Leu Gln Gln Thr Asn Glu Ile Leu Lys Ile His Glu Lys Asn Ser
 344 180 185 190
 346 Leu Leu Glu His Lys Ile Leu Glu Met Glu Gly Lys His Lys Glu Glu

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 07/18/2001

PATENT APPLICATION: US/09/832,355A

TIME: 09:49:46

Input Set : A:\205654.txt

Output Set: N:\CRF3\07182001\I832355A.raw

L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:3028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95
L:3030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95
L:3032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95
L:3101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96
L:4129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:4133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:4135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:4137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118